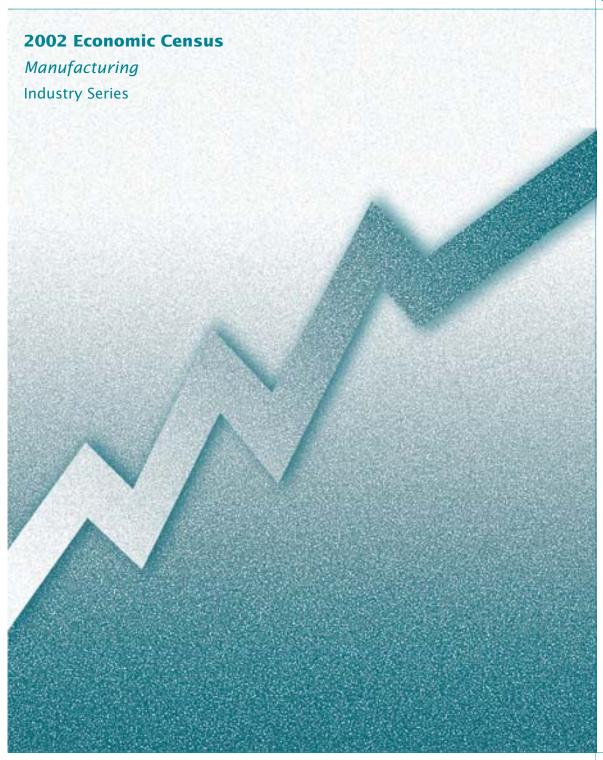
Copper Rolling, Drawing, and Extruding: 2002

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Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

		All	All employees			oduction worl	kers		Total	Total	Total capital
Industry and year ¹	Com- panies ²	estab- lish- ments ³	Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	materials s	value of shipments (\$1,000)	expendi- tures (\$1,000)
331421, Copper rolling, drawing, and											
extruding	91	136		668 880	13 004	26 612	478 319	1 703 578	4 688 189	6 373 312	r156 957
2001 2000	N N	N N	18 159 19 810	707 074 771 658	14 118 15 555	29 545 34 110	495 364 555 753	1 877 129 2 448 912	4 358 296 5 410 816	6 328 676 7 861 787	209 903 189 506
1999	N N	l N	19 796	768 986	15 634	34 030	552 008	2 426 213	4 913 857	7 327 314	136 792
1998	N		21 112	798 339	16 867	35 624	580 381	2 333 827	5 204 899	7 551 082	123 487
1997	91	128	21 012	780 787	16 504	36 325	564 338	2 303 999	5 306 797	7 619 953	144 446

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area		All establishments ²		All employees		Production workers						
		Total	With 20 em- ploy- ees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	tures
331421, Copper rolling, drawing, and extruding												
United States. Connecticut Illinois New Jersey Pennsylvania	2	136 10 7 8 16	89 8 7 6 13	16 406 927 3 023 381 1 980	668 880 43 496 136 899 15 295 80 944	13 004 653 2 384 289 1 431	26 612 1 446 4 803 522 2 872	478 319 30 161 96 937 9 749 52 390	1 703 578 91 424 206 309 29 462 192 093		6 373 312 201 387 848 999 68 785 612 927	r156 957 r3 591 r12 093 r4 123 r5 925

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
331421, Copper rolling, drawing, and extruding	
Companies ¹	91
All establishments ²	136 47 43 46
All employees³ number. Total compensation \$1,000 Annual payroll \$1,000 Total fringe benefits \$1,000	16 406 889 742 668 880 220 862
Production workers, average for year	13 004 13 036 12 963 13 020 12 971
Production worker hours	26 612 478 319
Total cost of materials \$1,000. Materials, parts, containers, packaging, etc., used \$1,000. Resales \$1,000. Purchased fuels \$1,000. Purchased electricity \$1,000. Contract work \$1,000.	4 688 189 4 426 095 74 143 49 948 98 290 39 713
Quantity of electricity purchased for heat and power	1 974 186 S
Total value of shipments \$1,000 Primary products value of shipments \$1,000 Secondary products value of shipments \$1,000 Total miscellaneous receipts \$1,000 Value of resales \$1,000 Contract receipts \$1,000 Other miscellaneous receipts \$1,000	6 373 312 5 916 610 171 116 225 586 80 735 193 302 11 549
Primary products specialization ratio percent. Value of primary products shipments made in all industries \$1,000. Value of primary products shipments made in this industry \$1,000. Value of primary products shipments made in other industry \$1,000.	97 5 959 923 5 916 610 43 313
Coverage ratiopercent.	99
Value added	1 703 578
Total inventories, beginning of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	579 594 149 160 267 577 162 857
Total inventories, end of year \$1,000 Finished goods inventories \$1,000 Work-in-process inventories \$1,000 Materials and supplies inventories \$1,000	600 435 147 354 287 838 165 243
Gross value of depreciable assets (acquisition costs) at beginning of year \$1,000 Total capital expenditures (new and used) \$1,000 Buildings and other structures (new and used) \$1,000 Machinery and equipment (new and used) \$1,000 Automobiles, trucks, etc., for highway use \$1,000 Computers and peripheral data processing equipment \$1,000 All other expenditures for machinery and equipment \$1,000 Total retirements \$1,000 Gross value of depreciable assets at end of year \$1,000	3 034 524 '156 957 '13 376 '138 581 '1 382 '5 107 '132 092 '110 562 '3 080 919
Depreciation charges during year	r188 196
Total rental payments \$1,000. Buildings and other structures \$1,000. Machinery and equipment \$1,000.	23 260 7 950 15 310
Total other expenses ⁴ \$1,000. Response coverage ratio ⁵ percent. Repair and maintenance services of buildings and/or machinery ⁴ \$1,000. Communications services ⁴ \$1,000. Legal services ⁴ \$1,000. Accounting, auditing, and bookkeeping services ⁴ \$1,000. Advertising and promotional services ⁴ \$1,000. Expensed computer hardware and supplies and purchased computer services ⁴ \$1,000. Refuse removal (including hazardous waste) services ⁴ \$1,000. Management consulting and administrative services ⁴ \$1,000. Taxes and license fees ⁴ \$1,000. All other expenses ⁴ \$1,000.	398 242 86 52 277 4 671 5 522 3 059 1 422 3 590 7 270 6 163 17 049 297 217

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on 2002 Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class			All emp	oloyees	Pr	oduction worke	rs		Total	Total	Total capital
		All estab- lish- ments ²	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
331421, Copper rolling, drawing, and extruding											
All establishments	_	136	16 406	668 880	13 004	26 612	478 319	1 703 578	4 688 189	6 373 312	^r 156 957
1 to 4 employees	9 7	28 8	49 54	1 602 2 115	37 38	66 82	1 061 1 353	3 882 4 695	6 526 10 316	10 404 14 982	^r 156 ^r 173
10 to 19 employees	4	11 18	618	D 23 583	D 492	1 001	D 16 861	55 307	D 424 545	480 689	D r4 375
50 to 99 employees	1	25 26	1 783 3 767	68 009 149 928	1 390 2 924	3 011 6 042	47 245 103 635	210 135 447 331	1 246 847 1 119 144	1 450 567 1 557 304	'8 676 '30 914
250 to 499 employees	=	15 4	5 412 2 491	210 516 109 636	4 403 1 926	8 996 3 781	155 882 76 341	616 209 199 932	1 127 183 479 236	1 743 072 683 826	r86 569 14 886
2,500 employees or more	_	-	9	-		-	-	-	-		
Administrative records ⁴	9	37	126	4 742	98	195	3 261	12 576	21 842	34 414	^r 521

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or	Industry or primary product class	All	All em	ployees	Production workers				Total	Total	Total capital
product class code		All estab- lish- ments ¹	Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi-
331421	Copper rolling, drawing, and extruding	136	16 406	668 880	13 004	26 612	478 319	1 703 578	4 688 189	6 373 312	^r 156 957
3314211	Copper wire, bare and tinned (nonelectrical), made in rolling										
3314213	mills	19	1 584	56 291	1 189	2 455	34 210	117 682	210 567	332 503	r17 491
3314217	bar, and shapes	24	3 334	145 754	2 468	5 282	98 286	493 695	2 210 080	2 697 638	r59 545
	sheet, strip, and plate	17	4 990	241 564	3 811	7 671	171 606	447 757	845 834	1 284 426	r28 643
3314219	Copper and copper-base alloy pipe and tube	26	6 063	208 792	5 201	10 536	162 980	632 434	1 340 785	1 970 437	r46 860

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Draduat		Number of companies with		Product shipments		
Product code	Product	shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)	
331421	Copper rolling, drawing, and extruding	N N	××	X	5 959 923 7 107 699	
3314211	Copper wire, bare and tinned (nonelectrical), made in rolling mills	N N	×	×	306 835 316 744	
33142111	Unalloyed copper wire, bare and tinned (nonelectrical), made in rolling mills	N N	×	X	149 470 188 616	
3314211101	Unalloyed copper wire, bare and tinned (nonelectrical), made in rolling mills	11 11	81.3 109.3	S 102.4	149 470 188 616	
33142112	Alloyed copper wire, bare and tinned (nonelectrical), made in 2002. rolling mills	N N	X X	X X	118 265 128 128	
3314211206	Alloyed copper wire, bare and tinned (nonelectrical), made in rolling mills	16 18	D P43.3	S 32.3	118 265 128 128	
3314211Y	Copper wire, bare and tinned (nonelectrical), made in rolling mills, nsk	N	x	x	39 100	
3314211YWV	Copper wire, bare and tinned (nonelectrical), made in rolling mills, nsk	N N N	X X	X X X	39 100	
3314213	Copper and copper-base alloy rod, bar, and shapes	N N	X	×	2 656 801 2 675 502	
33142131	Unalloyed copper and copper-base alloy rod, bar, and shapes (except electric rod)	N N	X	×	917 284 818 528	
3314213101	Unalloyed copper and copper-base alloy rod, bar, and shapes (except electric rod)	8 13	606.0 576.2	577.4 562.0	917 284 818 528	
33142132	Alloyed copper and copper-base alloy rod, bar, and shapes (except electric rod)	N N	X X	X X	1 739 517 1 856 974	
3314213206	Alloyed copper and copper-base alloy rod, bar, and shapes (except electric rod)	14 24	S 982.2	S P1 053.2	1 739 517 1 856 974	
3314213Y	Copper and copper-base alloy rod, bar, and shapes, nsk	N	X	X	1 656 974	
3314213YWV	1997 Copper and copper-base alloy rod, bar, and shapes, nsk	N N N	X X X	X X	_ _ _	
3314217	Copper and copper-base alloy sheet, strip, and plate	N N	X X	X	1 083 062 D	
33142171	Unalloyed copper and copper-base alloy sheet, strip, and plate	N N	X X	X	409 941 D	
3314217101	Unalloyed copper and copper-base alloy sheet, strip, and plate	10 13	213.6 P197.8	⁹ 214.6 D	409 941 D	
33142172	Alloyed copper and copper-base alloy sheet, strip, and plate (including military cups and discs)	N N	X X	×	673 121 1 411 858	
3314217206	Alloyed copper and copper-base alloy sheet, strip, and plate (including military cups and discs)	11 17	247.8 397.7	⁹ 253.1 ⁹ 482.9	673 121 1 411 858	
3314217Y	Copper and copper-base alloy sheet, strip, and plate, nsk	N N	X	X	-	
3314217YWV	Copper and copper-base alloy sheet, strip, and plate, nsk	N N	X	x x	_ _ _	
3314219	Copper and copper-base alloy pipe and tube	N N	X X	X	1 871 609 D	
33142193	Other alloyed and unalloyed copper and copper-base pipe and tube	N N	X	X	1 268 473 D	
3314219306	Other unalloyed copper and copper-base alloy pipe and tube	10 7	161.0 P100.9	P160.4 84.3	473 093 365 077	
3314219316	Other alloyed copper and copper-base alloy pipe and tube	8 17	363.3 D	334.3 D	795 380 D	
33142194	Copper and copper-base alloy plumbing piping and tube	N N	X	X	405 373 N	
3314219401	Copper and copper-base alloy plumbing pipe and tube	7 N	X	⁹ 212.5 N	405 373 N	
3314219Y	Copper and copper-base alloy pipe and tube, nsk	N N	χ̂	X	197 763	
3314219YWV	1997 Copper and copper-base alloy pipe and tube, nsk	N N N	X X X X X	X X	197 763 -	
331421W	Copper rolling, drawing, and extruding, nsk, total	N	x	X	41 616	
331421WY	Copper rolling, drawing, and extruding, nsk, total	N N N	X X X	X X	21 572 41 616 21 572	
331421WYWW	Copper rolling, drawing, and extruding, nsk, for nonadministrative-record establishments	N N	X X	×	8 360 1 637	
331421WYWY	Copper rolling, drawing, and extruding, nsk, for			I		

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3314211	Copper wire, bare and tinned (nonelectrical), made in rolling mills	
	United States	306 835 316 744
	Connecticut	17 107 36 175
	Illinois	30 173 39 014 N
	Pennsylvania	27 407 34 774
3314213	Copper and copper-base alloy rod, bar, and shapes	
	United States	2 656 801
	Pennsylvania	2 675 502 177 236 213 690
3314217	Copper and copper-base alloy sheet, strip, and plate	
	United States	1 083 062
	Ohio	52 445 N
	Pennsylvania	162 779 248 880
3314219	Copper and copper-base alloy pipe and tube	
	United States	1 871 609
	New Jersey	2 110 20 798
	Pennsylvania	196 465 235 899

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
331421	Copper rolling, drawing, and extruding		
00900001	Total materials		4 426 095 4 937 211
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	. x	4 644
33141101	Copper and copper-base alloy cathodes	. S	N 1 749 648 1 133 891
33141113	Copper and copper-base alloy ingot, ingot bar, and wire bar		41 222 251 682
33141111	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, fabricated metal products, cathodes, ingots, ingot bars, and wire bar)		1 012 677 1 157 066
33141925	Nickel and nickel-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	. s	38 835 38 044
33149105	Zinc and zinc-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)		47 049 83 559
33141949	Tin and tin-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	. x	3 571 12 897
33141903	Precious metals and precious metal alloy shapes and forms (excluding castings, forgings, and fabricated metal products) 1,000 troy ounces 2002 1997	. D	D 26 222
33142101	Brass shapes and forms (excluding castings, forgings, and fabricated metal products)		123 231
33141921	All other nonferrous metal shapes and forms (excluding tin and tin-base alloy and zinc and zinc-base alloy castings, forgings, and fabricated metal products)	. x	3 209
00190024	Copper and copper-base alloy scrap (excluding home scrap)	. s	856 003 1 286 890
00190080	Other nonferrous metal scrap (excluding home scrap)		D
00970099	All other materials and components, parts, containers, and supplies	. X	377 673 354 448
00971000	Materials, ingredients, containers, and supplies, nsk	. X	92 529 67 555

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.